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Fixing of security flaw in IKE protocols

 J Zhou - Electronics Letters, 1999 - [ieeexplore.ieee.org](#)

 ... basic modes: **main mode** and aggressive mode, used in phase 1, and **quick mode**, used

 in ... There are six rounds of exchanges in the **main mode** protocol. ... IKE message. ...

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Further analysis of the Internet key exchange protocol- ► [a-star.edu.sg](#) [PDF]

J Zhou - Computer Communications, 2000 - Elsevier

 ... its security association payload in the **quick mode** protocol ... In Phase 1 of the IKE
 protocol, the initiator and ... Here we use the **main mode** protocol with pre-shared ...

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Methods and protocols for secure key negotiation using IKE- ► [ktupm.edu.sa](#) [PDF]

 MS Borella - IEEE Network, 2000 - [ieeexplore.ieee.org](#)

... Secure Key Negotiation Using IKE ... cols of IPsec's Internet Key Exchange and discuss
 the types of security that the various IKE modes provide. ...

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IKE/ISAKMP considered harmful- ► [tu-chemnitz.de](#)

 WA Simpson - USENIX, login, 1999 - [usenix.org](#)

 ... relies on the security of the "Main" mode of operation ... be ameliorated by removal
 of the **quick mode** with its ... specifications are due to the IKE/ISAKMP framework. ...

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Analysis of the Internet Key Exchange protocol using the NRLProtocol Analyzer- ► [ktupm.edu.sa](#) [PDF]

 C Meadows - Security and Privacy, 1999. Proceedings of the 1999 IEEE ..., 1999 - [ieeexplore.ieee.org](#)

 ... init keymain subprotocol corresponding to **main mode** , or the ... such as including
 identities in **Quick Mode** messages are ... to a protocol suite like IKE, it became ...

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Efficient, DoS-resistant, secure key exchange for internet protocols- ► [psu.edu](#) [PDF]

 W Aiello, SM Bellovin, M Blaze, J Ioannidis, O ... - Proceedings of the 9th ACM conference on Computer and ..., 2002 -
 [portal.acm.org](#)

 ... But our motivation is especially colored by our experience with IKE. ... mod p). g r
 Responder's current exponential, (mod p). N I Initiator **nonce**, a random bit ...

Cited by 78 - Related articles - Web Search - BL Direct - All 35 versions

[CITATION] Performance evaluation of the Internet Key Exchange Protocol under dynamic VoIP network conditions

B Springer, L Kilmartin - Proceedings ISSC 2003

Cited by 3 - Related articles - Web Search

[TXT] ► An architecture for the Internet Key Exchange protocol

 PC Cheng - IBM Systems Journal, 2001 - [research.ibm.com](#)

 ... Figure 10 depicts IKE **main mode** using revised public key ... SPI[NONCE[sub]||/sub]NONCE|
 sub]R ... the compromise of other KEYMATs; thus IKE **QUICK mode** provides perfect ...

Cited by 18 - Related articles - Cached - Web Search - BL Direct - All 13 versions

[PDF] ► Using the NRL Protocol Analyzer to examine protocol suites

 C Meadows - LICS Workshop on Formal Methods and Security Protocols, 1998 - [people.emich.edu](#)

 ... **Quick mode** uses Die-Hellman key exchange, and can be ... the init keymain subprotocol
 (corresponding to **main mode**), or the ... to a protocol suite like IKE, it became ...

Cited by 8 - Related articles - View as HTML - Web Search - All 3 versions

IPsec Networking Standards—An Overview

N Dunbar - Information Security Technical Report, 2001 - Elsevier

... is still an expensive operation, and so **Quick Mode** exchanges do ... Only **Main Mode** is required to be implemented for **IKE**. ... on both sides of the **IKE** exchange, the ...

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Key authors: [J Zhou](#) - [C Meadows](#) - [W Aiello](#) - [N Ferguson](#) - [S Bellovin](#)

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